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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,324	09/29/2003	Mark B. Knudson	14283.1USI3	4634
7590 03/24/2006			EXAM	INER
Merchant & Gould P.C.			REIDEL, JESSICA L	
P.O. Box 2903				
Minneapolis, N	IN 55402-0903		ART UNIT	PAPER NUMBER
			3766	
			DATE MAILED: 03/24/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/674,324	KNUDSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jessica L. Reidel	3766				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 Se	eptember 2003.	•				
,	action is non-final.					
3) Since this application is in condition for allowan	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-19 is/are pending in the application.						
4a) Of the above claim(s) <u>1-11</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 12-19 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
		· · · · · ·				
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>29 September 2003</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents	s have been received.	•				
2. Certified copies of the priority documents	s have been received in Applicati	on No				
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).	•				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 01/04, 01/04 0 204, 04/04, 04/04	=	Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group II, Claims 12-19 in the reply filed on March 9, 2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Priority

2. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. [1] as follows:

The later-filed application must be an application for a patent for an invention that is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The disclosure of the prior-filed application, Application No. 10/358,093, fails to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. Specifically, there is no support or enablement provided in the disclosure of Application No. 10/350,093 for a method comprising applying an electrical blocking signal to a vagus nerve at a blocking site to at least partially block nerve impulses to an organ.

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Information Disclosure Statement

The information disclosure statements (IDS) submitted on January 2, 2004, January 23, 2004, February 9, 2004, April 12, 2004, July 19, 2004, August 9, 2004, September 28, 2004, January 21, 2005, May 26, 2005, August 31 2005 and February 2, 2006 have been acknowledged and are being considered by the Examiner.

Specification

4. The disclosure is objected to because of the following informalities: the "Cross-Reference to Related Applications" should be updated to include the serial numbers of the referenced Applications. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 12-14 and 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Osorio et al. (U.S. 6,341,236) (herein Osorio). As to Claim 12, Osorio discloses a method for treating epilepsy with minimized or no effect on the heart (see Osorio Abstract) comprising electrically stimulating a vagus nerve 60 of a patient at a stimulation site with a stimulation signal selected to have a therapeutic effect on a target organ (i.e. the brain) while applying an electrically blocking signal (i.e. anodal currents or high frequency stimulation) to the vagus nerve 60 at a blocking site (anode of the electrode pair) on a side of the stimulation site opposite the target organ (i.e. the brain) where the blocking signal is selected to at least partially block

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nerve impulses to a second organ (i.e. the heart 55) on a side of the blocking site opposite the

stimulation site (cathode of the electrode pair) (see Osorio Fig. 12A, column 6, lines 53-67 and

column 7, lines 1-61).

7. As to Claim 13, Osorio further discloses that a signal generator 20 may be used to vary

the pulsing parameters of the pulse signal applied to the vagus nerve 60 (see Osorio column 5,

lines 13-34 and lines 47-54).

8. As to Claim 14, Osorio further discloses that physiological signals sensed via sensor 15

of the heart 55 may be used to regulate the pulse signal applied to the vagus nerve 60 (see Osorio

column 3, lines 9-11 and lines 35-42 and column 4, lines 45-65).

9. As to Claim 17, Osorio further discloses that the target organ is a brain and the second

organ is a heart 55 (see Osorio Figs. 12A-12B, Abstract, column 3, lines 23-63, column 6, lines

53-67, column 7, lines 1-61 and column 8, lines 7-10).

10. As to Claims 18-19, Osorio further discloses that the disorder is epilepsy, which is a

disorder associated with the central nervous system (see Osorio Figs. 12A-12B, Abstract, column

1, lines 5-48, column 3, lines 23-63, column 6, lines 53-67, column 7, lines 1-61 and column 8,

lines 7-10).

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

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12. Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osorio in view of Cohen et al. (U.S. 6,684,105) (herein Cohen). Osorio discloses the claimed invention as discussed above except that the target organ is not a gastro-intestinal organ and the method is no any one of a plurality of gastrointestinal diseases.

Cohen, however, discloses a method for treating many conditions of a subject using an electrode device that is adapted to be coupled to longitudinal nervous tissue of the subject (i.e. the vagus nerve) and a control unit that is adapted to drive the electrode device to apply to the nervous tissue a current which is capable of inducing action potentials that propagate in the nervous tissue in a first direction, so as to treat the desired condition. Cohen further discloses that the control unit is further adapted to suppress action potentials from propagating in the nervous tissue in a second direction opposite to the first direction to avoid inducing possible unwanted side effects both proven and potential of selective stimulation of the vagus nerve (see Cohen Abstract, column 1, lines 6-31 and column 2, lines 31-33). Cohen further discloses that this method and apparatus may be used to stimulate a portion of the vagus nerve innervating the stomach in order to stimulate sensory fibers and thereby produce a sensation, e.g., satiety or hunger while avoiding inadvertently reducing or otherwise affecting the heartbeat of the patient (see Cohen column 5, lines 20-39). Cohen also teaches that the method and apparatus may be used to treat any disorder of an organ or organ system of a patient that is modulated by the vagus nerve (see Cohen column 1, lines 6-31). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of Osorio in view of Cohen to include an embodiment where the target organ is one of the gastro-intestinal tract (such as the stomach) to allow for treatment of any one of a plurality of gastrointestinal

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disorders (which are modulated by vagul nerve activity) without inadvertently affecting the beating of the heart of a patient to better the invention.

Double Patenting

13. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

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14. Claims 12-13 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-4, 7, 9, 17-20 and 23 of copending Application No. 10/756,166. Although the conflicting claims are not identical, they are not patentably distinct from each other because the current claims are either a broadening of the scope of the patented claims or an obvious variant thereof.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

15. Claims 12-13 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-4, 7-8, 10, 19-21 and 24-31 of copending Application No. 10/756,176. Although the conflicting claims are not identical, they are not patentably distinct from each other because the current claims are either a broadening of the scope of the patented claims or an obvious variant thereof.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

16. Claims 12-13 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-2, 4-5 and 8-14 of copending Application No. 10/675,818. Although the conflicting claims are not identical, they are not patentably distinct from each other because the current claims are either a broadening of the scope of the patented claims or an obvious variant thereof.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fang et al. (U.S. 5,199,430) discloses a method where action potentials are electrically excited to propagate downstream on smaller diameter nerve fibers causing contraction of the bladder and concurrently, blocking action potentials are allowed to propagate upstream on larger diameter nerve fibers, collision blocking naturally occurring.

King (U.S. 6,928,320) also discloses a method and an apparatus for blocking activation of tissue or conduction of action potentials while other tissue is being therapeutically activated.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica L. Reidel whose telephone number is (571) 272-2129. The examiner can normally be reached on Mon-Thurs 7-4:30 and every other Friday 7-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571) 272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jessica L. Reidel 0.8/19/06

Examiner Art Unit 3766

Robert E. Pezzuto

Supervisory Patent Examiner

Art Unit 3766